

**PMC09A Series**  
**9" Color Monitor**

**Installation/Operation Manual**  
**C989M (1/96)**

## IMPORTANT SAFEGUARDS

1. Read Instructions - All the safety and operating instructions should be read before the unit is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the unit and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture - Do not use this unit near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool, in an unprotected outdoor installation, or any area which is classified as a wet location.
8. Accessories - Do not place this unit on an unstable stand, tripod bracket, or mount. The unit may fall, causing serious injury to a person and serious damage to the unit. Use only with a stand, tripod, bracket, or mount recommended by the manufacturer, or sold with the product. Any mounting of the unit should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



9. Ventilation - Openings in the enclosure, if any, are provided for ventilation and to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. This unit should not be placed in a built-in installation unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power Sources - This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply you plan to use, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.
11. Grounding or Polarization - This unit may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Alternately, this unit may be equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

12. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
13. Power Lines - An outdoor system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outdoor system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. U.S.A. models only - refer to the National Electrical Code Article 820 regarding installation of CATV systems.

14. Overloading - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
15. Object and Liquid Entry - Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.
16. Servicing - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
17. Damage Requiring Service - Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power-supply cord or plug is damaged.
  - b. If liquid has been spilled, or objects have fallen into the unit.
  - c. If the unit has been exposed to rain or water.
  - d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
  - e. If the unit has been dropped or the cabinet has been damaged.
  - f. When the unit exhibits a distinct change in performance—this indicates a need for service.
18. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
19. Safety Check - Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
20. Coax Grounding - If an outside cable system is connected to the unit, be sure the cable system is grounded. U.S.A. models only-Section 810 of the National Electrical Code, ANSI/NFPA No.70-1981, provides information with respect to proper grounding of the mount and supporting structure, grounding of the coax to a discharge unit, size of grounding conductors, location of discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
21. Lightning - For added protection of this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the unit due to lightning and power-line surges.

## FCC & ICES INFORMATION

(U.S.A. and Canadian Models Only)

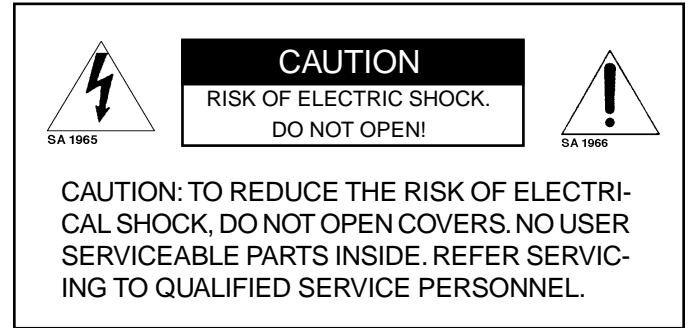
**WARNING** - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules and ICES-003 of Industry Canada. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

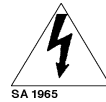
Intentional or unintentional changes or modifications not expressly approved by the party responsible for compliance shall not be made. Any such changes or modifications could void the user's authority to operate the equipment.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No.004-000-00345-4.

## Safety Precautions



This label may appear on the bottom of the unit due to space limitations.



The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**Warning**  
To prevent fire or shock hazard, do not expose units not specifically designed for outdoor use to rain or moisture.



**Attention:** Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.



**Power Disconnect.** Units with or without ON-OFF switches have power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is in the ON position. The power cord is the main power disconnect for all units.



**Improper Operation.** Alteration of the high voltage circuit or changing the display tube type may result in an increase in the x-ray emission of this unit. A unit altered in such a way no longer meets the standards of certification and must no longer be operated.



**WARNING:** Electrostatic-sensitive device. Use proper CMOS/MOSFET handling precautions to avoid electrostatic discharge.

**NOTE:** Grounded wrist straps must be worn and proper ESD safety precautions observed when handling the electrostatic-sensitive printed circuit boards.

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## UNPACKING

Unpack carefully. This is electronic equipment and should be handled with care.

The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

## DESCRIPTION

The PMC09A Series are 23-cm (9-inch) color video monitors for specialized surveillance and industrial CCTV applications. These color monitors provide excellent picture quality and convenient control of functions. They are ideal for time lapse and event alarm VCR systems, or color video multiplexers.

## INSTALLATION

**Location** — The monitor should be located in a position such that the flow of air around the unit is not restricted. Avoid heat vents or other heat sources. Component life is greatly enhanced with moderate temperatures.

### Power

Model No. <sup>1</sup>	Rated Voltage	Voltage Range	Nominal Power <sup>2</sup>	Color System
PMC09A	120 VAC, 60 Hz	108 to 132	0.63 A	NTSC
PMC09A-X	230 VAC.50Hz	198 to 264	0.31 A	CCIR PAL

1. These units may be supplied with grounded power cords; grounding should not be defeated.
2. At rated voltage.

**Video Cabling** — To assure good picture quality, use 75 ohm coaxial cable and be sure the unit is terminated correctly. Cable attenuation should also be considered on long cable runs and adequate video signal levels provided.

When the monitor is located at the end of the cable run, use the VIDEO IN connector on the rear of the chassis and set the termination switch to the "75  $\Omega$ " position. Use the VIDEO OUT connector when the video cable is "looped through" the monitor to other video equipment and set the termination switch on to the last piece of equipment on the line to the "75  $\Omega$ " position.

## OPERATION

To obtain the best possible operation from this product, the following setup procedure should be followed when installing the monitor. The setup process is very simple and straightforward and involves nothing more than attaching a source of color video and adjusting the controls to the detent position. This provides a factory preset condition which allows normal viewing. If contrast, brightness, chrome or phase need to be fine tuned, please use the following procedures to obtain the best picture. Note that the center detent position on all front panel controls is the normal setting; a subcontrol is provided for presetting each control. The subcontrol adjustments should be adjusted by a qualified service technician only.

1. Connect a camera or other source of standard color video signal to the VIDEO IN of the monitor.
2. Turn on the POWER switch; LED indicator will light. Allow the monitor to warm up for about 30 seconds. Adjust the PHASE control (applies to PMC09A only), to the center detent position. If necessary, for best tint adjustment, rotate the Phase control to obtain the desired picture.
3. Adjust the CHROMA control to the center detent position. The monitor screen should appear to provide a color image. If the image requires more color saturation rotate the control clockwise. If colors appear too saturated, adjust the control counter-clockwise.
4. Adjust BRIGHT and CONTRAST controls to the center detent position. If dark scene areas require enhancement, the BRIGHT control can be rotated clockwise. If the "black level", which determines the darkest portion of the picture, appears too light, rotate the BRIGHT control counter-clockwise.

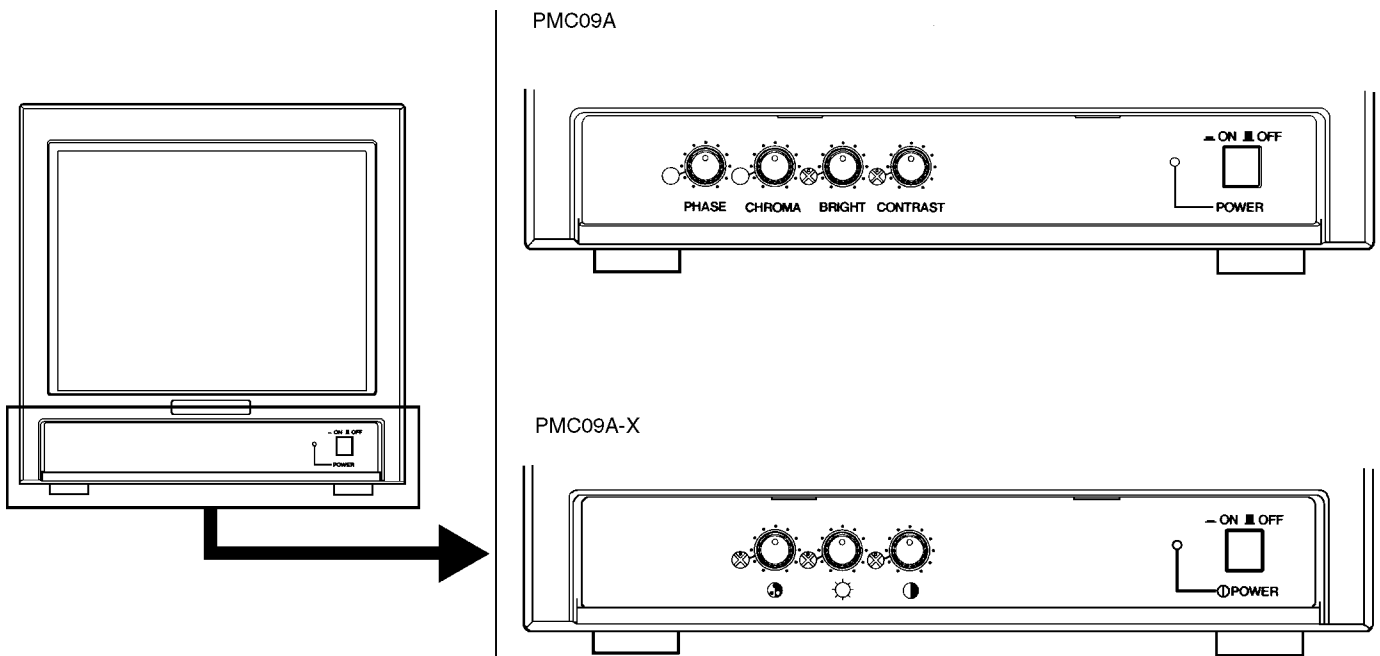
5. When video is looping through the monitor to another video device, properly switch the termination switch on the rear panel of the monitor from the 75 ohm position to the HiZ position (High Impedance).
6. NOTE - There are no external Vertical or Horizontal Hold controls. The monitor contains circuitry to lock the synchronization internally.
7. NOTE - Overdrive of the white portions of the video, sufficient to cause blooming, can significantly shorten the service life of the CRT. Always adjust the BRIGHT and CONTRAST controls to the center detent position or towards a minimum setting to enhance monitor life expectancy.

## MAINTENANCE



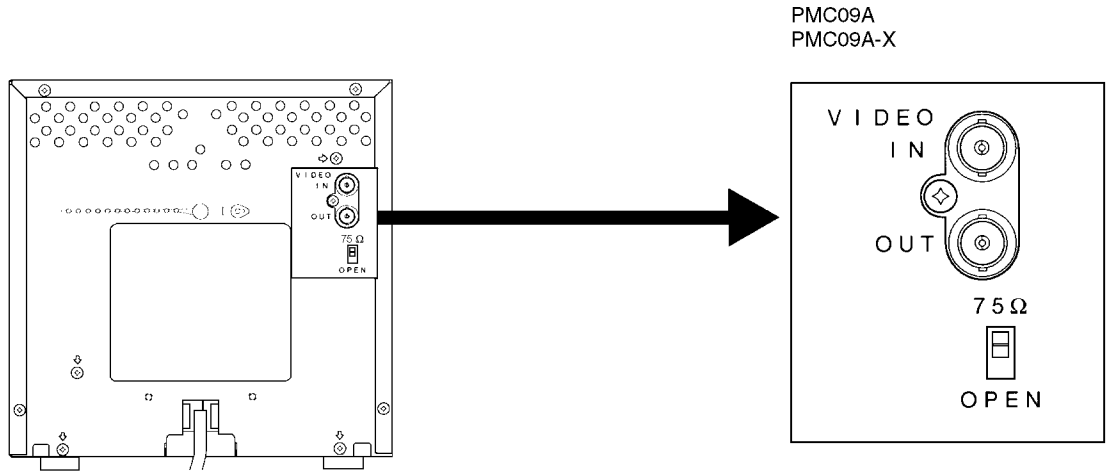
This unit contains no user-serviceable components. Maintenance, beyond the adjustments described herein, should be attempted only by trained technical personnel.

## ILLUSTRATIONS

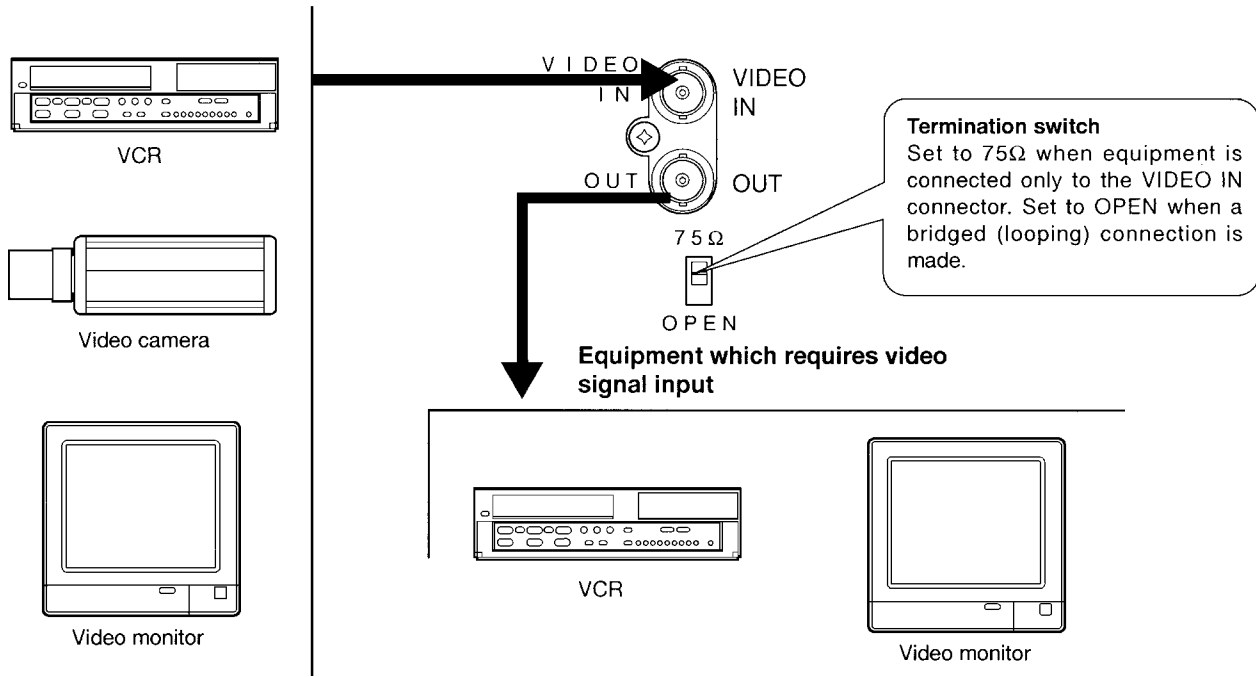


Front Panels

# ILLUSTRATIONS (Cont'd)



**Rear Panel**



**Typical Applications**

# WARRANTY AND RETURN INFORMATION

## WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one (1) year after the date of shipment. Exceptions to this warranty are as noted below:

- Six (6) months on all pan and tilts, scanners or preset lenses used in continuous motion applications (e.g., preset scan, tour and auto scan modes).
- Two (2) years on Legacy®, Intercept® and CM8500/CM9500/CM9750 Matrix products.
- Two (2) years on WW5700 series window wiper (excluding wiper blades).

Pelco will warranty all replacement parts and repairs for 90 days from the date of shipment. All goods for warranty work shall be sent freight prepaid to our Clovis, California facility. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty. Pelco is not liable for any incidental or consequential expenses or liability incurred by the customer as a result of field repair, installation, or any other reason.

The above warranty is in lieu of any other expressed or implied warranty, condition, or guarantee by Pelco of the equipment listed herein. Pelco makes no warranties except for intended use and will not be liable for any loss, damage, or costs arising, whether consequential or incidental, from the use of said merchandise.

This warranty gives you specific legal rights. You may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, contact Pelco at **(800) 289-9100** or **(209) 292-1981** for a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Ship freight prepaid to: Pelco  
300 West Pontiac Way  
Clovis, CA 93612-5699

Method of return shipment shall be the same as method by which the repair item is received by Pelco.

## RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at **(800) 289-9100** or **(209) 292-1981** to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair). Goods returned for repair or credit should be clearly identified with the assigned CA/RA number and freight should be prepaid. All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Ship freight prepaid to: Pelco  
300 West Pontiac Way  
Clovis, CA 93612-5699



**Pelco**

300 West Pontiac Way, Clovis, CA 93612-5699 (209) 292-1981 • (800) 289-9100  
FAX (800) 289-9150 or (209) 292-3827 • DataFAX (800) 289-9108 or (209) 292-0435

International customers call 1-209-292-1981 or FAX 1-209-348-1120

(Product specifications subject to change without notice.)

**C989M**